

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/846,158	04/30/2001	Judith A. Johnson	064752.0311	064752.0311 4213	
7:	590 06/28/2004	EXAMINER			
Harold E. Me		BOOKER, KELVIN E			
Baker Botts L.I Suite 600	L.P.	ART UNIT PAPER NUMBER			
2001 Ross Ave		2121	21		
Dallas, TX 75	5201-2980		DATE MAILED: 06/28/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			•					
		Applicati	Application No. Applicant(s)					
		09/846,1	58	JOHNSON, JUDITH A.				
Office Action Summary		Examine	r	Art Unit				
		Kelvin E		2121				
The MAILIN	G DATE of this communica	ation appears on th	e cover sheet with the	correspondence addr	ess			
A SHORTENED S' THE MAILING DAT - Extensions of time may after SIX (6) MONTHS f - If the period for reply sp - If NO period for reply is - Failure to reply within th Any reply received by th	TATUTORY PERIOD FOI TE OF THIS COMMUNIC, be available under the provisions of rom the mailing date of this commun ecified above is less than thirty (30) of specified above, the maximum statule e set or extended period for reply will e Office later than three months afte stment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no exication. days, a reply within the statory period will apply and v ll, by statute, cause the app	vent, however, may a reply be ti tutory minimum of thirty (30) da vill expire SIX (6) MONTHS from plication to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this comr ED (35 U.S.C. § 133).	nunication.			
Status								
1) Responsive t	o communication(s) filed	on <i>30 April 2001</i> .						
	<u> </u>							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4a) Of the about 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-24</u> 7) ☐ Claim(s)		withdrawn from co						
Application Papers								
9)☐ The specifica	tion is objected to by the I	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	drawing sheet(s) including the eclaration is objected to be				• •			
Priority under 35 U.S.	C. § 119							
a) All b) S 1. Certifie 2. Certifie 3. Copies applica	nent is made of a claim for Some * c) None of: ed copies of the priority do ed copies of the priority do s of the certified copies of ation from the International ed detailed Office action to	ocuments have been been been the priority documents Bureau (PCT Ru	en received. en received in Applicat ents have been receiv le 17.2(a)).	ion No ed in this National St	age			
Attachment(s)								
	s's Patent Drawing Review (PTC Statement(s) (PTO-1449 or PT		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other: Detailed Offi	ate Patent Application (PTO-1	52)			

Art Unit: 2121

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-24 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1, 7, 14 and 20 are directed at a method for interfacing a genetic search algorithm to a web environment without disclosing any computer implemented processing. Abstract ideas (see Warmerdam, 33 F.3d at 1360, 31 USPQ2d at 1759) or the mere manipulation of abstract ideas (see Schrader, 22 F.3d at 292-93, 30 USPQ2d at 1457-58) are not patentable.

As disclosed, independent claims 1, 7, 14 and 20 focus on nonfunctional descriptive material, which is inclusive of the mere arrangement of data without engaging functionality when employed as a computer component.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 2121

4. Claims 1-4 are rejected under 35 U.S.C. 102(a) as being anticipated by Wallace et al., "Haskell and XML: Generic Combinators or Type-Based Translation?" [hereafter Wallace].

As per claim 1, Wallace teaches of a method for interfacing a genetic search algorithm to the web environment of the Internet, comprising:

A. defining data elements, attributes and rules for use thereof for an extensible markup language (XML) (see page 148, section 1.1, column 1);

B. storing the XML in a document type definition file (DTD) (see page 148, section 1.1, column 1);

C. describing data in a document in a hierarchical format utilizing the stored XML (see page 148, section 1.2, column 2); and

D. importing the data in the document to a genetic algorithm to define a data string or an individual in a population of points (see page 149, section 1.3, column 2).

As per claim 2, Wallace teaches of a method for interfacing a genetic search algorithm wherein defining data elements, attributes and rules comprises defining a tree-based crossover operator (see page 151, section 5, column 2).

As per claim 3, Wallace teaches of a method for interfacing a genetic search algorithm wherein defining data elements, attributes and rules comprises defining a mutation operator (see (see page 151, section 5, column 2).

As per claim 4, Wallace teaches of a method for interfacing a genetic search algorithm further comprising importing elements from the document definition file as nodes of the stored XML (see page 158, section 6, column 2).

Art Unit: 2121

Conclusion

- 5. The following prior art made of record and not relied upon, is considered pertinent to applicant's disclosure:
 - A. Kerven et al., U.S. Patent Application Publication No. 2002/0042784;
 - B. Hsiung et al., U.S. Patent Application Publication No. 2003/0109951;
 - C. Hsiung et al., U.S. Patent Application Publication No. 2003/0083756;
 - D. Hsiung et al., U.S. Patent Application Publication No. 2003/0144746;
 - E. Keith, U.S. Patent No. 6,629,097;
 - F. Royappa, "Implementing Catalog Clearinghouses with XML and XSL";
 - G. Rabarijaona et al., "Building and Searching an XML-Based Corporate Memory";
 - H. Abiteboul, "On Views and XML";
 - I. Joseph et al., "Design of a Parallel Genetic Algorithm For The Internet";
 - J. Carmel et al., "XML and Information Retrieval: A SIGIR 2000 Workshop";
- K. Katayama et al., "A New Iterated Local Search Algorithm Using Genetic Crossover for the Traveling Salesman Problem";
 - L. Chen et al., "Intelligent Spider for Internet Searching";
 - M. DeRose, "XML Linking", ACM Computing Surveys, December 1999;
 - N. Gogan et al., "The Use of Neural Networks for Structural Search on Web";
- O. Goldman et al., "WSQ/DSQ: A Practice Approach for Combined Querying of Databases and the Web";
 - P. Dix, "Interactive Querying Locating and Discovering Information";

Art Unit: 2121

Q. Buraga et al., "An XML-Based Query Language Used in Structural Search Activity on

Page 5

Web";

R. Ciancarini et al., "Managing Complex Documents Over the WWW: A Case Study for

XML"; and

S. Kendall et al., "Information Delivery Systems: An Exploration of Web Pull and Push

Technology".

6. An inquiry concerning this communication or earlier communications from the examiner

should be directed to Kelvin Booker whose telephone number is (703) 308-4088. The examiner

can normally be reached on Monday-Friday from 7:00 AM-5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Anthony Knight, can be reached on (703) 308-3179. The fax number for the

organization where this application or proceeding is assigned is (703) 872-9306.

An inquiry of a general nature or relating to the status of this application proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

Anthony Knight

Supervisory Patent Examiner

Group 3600

K.E.B.

Art Unit 2121

June 23, 2004